



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

PURCHASE ORDER  
PO039065

Supplier:	AVI002-VU Aviall PO BOX 842267 Dallas, TX 75284-2267 USA Phone: 905-676-1695 Fax: 905-676-9046	PO No:	PO039065
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	PO Date:	2/16/18
		Due Date:	2/23/18
		Purchase Order Revision:	
		Revision Date:	
		Ship-To Contact:	Phone:
		Via:	Ground
		Pymt Terms:	Net 30
		Freight Terms:	
		Special Comments:	

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	600.0990		Magnabond 6398 Part A Size 112 ml : MAGNOBOND, 6398, PART A (4OZ JAR)	Firmed	2/23/18	12 Ea	✓ 0 Ea	12 Ea	\$33.22/Ea	\$398.64
2	600.0991		Magnabond 6398 Part B Size 112 ml : MAGNOBOND, 6398, PART B (4OZ JAR)	Firmed	2/23/18	12 Ea	✓ 0 Ea	12 Ea	\$33.22/Ea	\$398.64
3	AN3-16A		Bolt	Firmed	2/23/18	100 Ea	0 Ea	100 Ea	\$0.14/Ea	\$14.00
4	AN3-35A		Bolt	Firmed	2/23/18	200 Ea	0 Ea	200 Ea	\$0.47/Ea	\$94.00
5	AN4-13A	AN4-13A	Bolt	Firmed	2/23/18	500 Ea	0 Ea	500 Ea	\$0.18/Ea	\$90.00
6	AN4-42A		Bolt receive ea	Firmed	2/23/18	100 pcs	0 pcs	100 pcs	\$0.9702/pcs	\$97.02
7	AN6-41A		Bolt	Firmed	2/23/18	50 Ea	0 Ea	50 Ea	\$1.56/Ea	\$78.00
8	AN743-12		Clip	Firmed	2/23/18	10 Ea	0 Ea	10 Ea	\$0.24/Ea	\$2.40
9	CR3212-4-04		Cherry Rivet	Firmed	2/23/18	1,000 Ea	0 Ea	1,000 Ea	\$0.2978/Ea	\$297.80
10	MS20470AD4-4		Rivet, Universal Head	Firmed	2/23/18	2,069 Ea	0 Ea	2,069 Ea	\$0.0087/Ea	\$18.00
11	MS21042L4		Nut	Firmed	2/23/18	3,000 Ea	0 Ea	3,000 Ea	\$0.17/Ea	\$510.00
12	NAS1149CN832R		Washer	Firmed	2/23/18	500 Ea	0 Ea	500 Ea	\$0.03/Ea	\$15.00
13	NAS1149D0463J	NAS1149D0463J	Washer	Firmed	2/23/18	3,000 Ea	0 Ea	3,000 Ea	\$0.03/Ea	\$90.00
14	NAS43DD3-68		Spacer	Firmed	2/23/18	25 Ea	0 Ea	25 Ea	\$0.15/Ea	\$3.75



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# PURCHASE ORDER PO039065

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
										Grand Total: \$2,107.25

## Order Notes

### Procurement Quality Clauses

A005 RIGHT OF ENTRY

A016 PERSONNEL QUALIFICATION

A026 CERTIFICATION OF MATERIAL CONFORMANCE

A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT

A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS

A040 NOTIFICATION OF QUALITY ESCAPE

A041 QUALITY MANAGEMENT SYSTEM

A042 DART NOTIFICATION BY SUPPLIER

A043 RETENTION OF QUALITY DOCUMENTS

A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM

A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

WB  
CL

Plex 2/16/18 3:29 PM dart.baker.diane



*Safety Data Sheet  
Supplemental Information*

FEB 21 2018

Delivery Number: 8005527143

Supplier Name:

AVIALL CENTRAL WAREHOUSE  
DALLAS CDC  
DFW AIRPORT 75261  
PH: 972-586-1000

Product Details:

MAGN0B0ND6398=33  
ADHESIVE: EPOXY,A/B,112ML  
MAGNOLIA ADVANCED MATERIALS  
MAGNOBOND 6398-B

1 of 1

Corporate SDS contact - PRC@Aviall.com

Aviall Services, Inc, 2750 Regent Blvd., P.O. Box 619048, DFW Airport, TX, 75261

# PACKING LIST



CUSTOMER PO:PO39065  
 ORDER NUMBER:1003841497  
 ORDER DATE:21FEB18

DELIVERY NUMBER: 8005527143

ROUTE: US FedEx International Priority

PAGE:1 of 1  
 DATE:21FEB18  
 TIME:17:24:34  
 EMP:00000000  
 ORD TYP: ZOR 169  
 CURRENCY:USD  
 TERMS:Net 30

B 10003952  
 DART AEROSPACE LTD  
 1270 ABERDEEN STREET  
 HAWKESBURY ON K6A 1K7  
 CANADA

S 10003952  
 SH DART AEROSPACE LTD  
 IP 1270 ABERDEEN STREET  
 P HAWKESBURY ON K6A 1K7  
 TO CANADA

S 1000  
 SH AVIALL CENTRAL WAREHOUSE  
 IP DALLAS CDC  
 P 2750 REGENT BLVD  
 F DFW AIRPORT TX 75261  
 ROM USA

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L  
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O

LINE	PO LINE	MFG	ITEM DESCRIPTION	ORDER QUANTITY	SHIP QUANTITY	QUANTITY BACK ORDER	UOM		CUSTOMER PRICE	EXTENDED CUSTOMER PRICE
00010	0	33	MAGN0B0ND6398 ADHESIVE: EPOXY,A/B,112ML	12	12	0	CQ		66.44	797.28
			BATCH 7364775754	Exp Date :01FEB19	6					
			BATCH 7364764601	Exp Date :01JAN19	6					

**This is not an Invoice.  
 For payment processing, please refer to Invoice.**

The recipient of these goods agrees to comply with all export regulations governing the transfer, sale, lease, or use of these goods.  
 Diversion contrary to U.S. Law is prohibited.

#### CERTIFICATE OF CONFORMANCE

It is hereby certified that Aviall Services, Inc., is an approved distributor and meets all requirements of ISO9001, AS9100, AS9120 and AC 00-56 at 2750 Regent Blvd. DFW Airport, Texas. The products, articles or parts referenced on this document are in new or overhauled condition and were purchased from an approved source (FAA, EASA, TCCA, Mil Spec or Commercial). The Original Manufacturers' Certifications are maintained on file at our central office location, and copies are available upon request or at Aviall.com. For overhauled or repaired products, articles or parts, the original FAA 8130-3 / EASA Form 1 (Return to Service) or Yellow Tag, from the FAA/JAA/EASA approved Air Agency are attached to the component.

21FEB18  
 Date

DISCOUNT TERMS APPLY ONLY TO SUB TOTAL. ALL RETURNED MERCHANDISE SUBJECT TO HANDLING FEE.  
 THIS IS TO CERTIFY THAT AVIALL HAS COMPLIED WITH THE PROVISIONS OF THE FAIR LABOR ACT OF 1938 AMENDED.



# Certificate Of Compliance

Packing Slip	ORD21622
Document Date	10/18/2017
Page	1

4360 NORTHEAST EXPRESSWAY  
ATLANTA GA 30340

**Bill To:**

AVIALL SERVICES, INC.  
P.O. BOX 619048  
DALLAS TX 75261-9048

**Ship To:**

AVIALL SERVICES, INC.  
DALLAS CDC  
Attn: Haz Rec Det -- Dock Doors 15-18  
2750 REGENT BLVD.  
DFW AIRPORT TX 75261-9048  
(972) 586-1314 Ext. 0000

\* Item Shipped Directly from Vendor

Purchase Order No.	Customer ID	Salesperson ID	Shipping Method	Payment Terms	Order Placed By	Ship Date
45760665, LN 1	AVIAL001	INSIDE SALES	FED EX GRND COL	NET 30 DAYS	HEATHER	1/15/2018
Ordered	Shipped	B/O	Item Number	Description	Site	UOM
50	50	0	6398-AB/112ML	MAGNOLIA 6398- AB, 112ML, 2.5:1, TUBE KIT 50 Lot # 17M08/17M08	4360	EA

ITEM MAGNOBOND6398=33  
  
BATCH 7364764601

GRIVAS  
01/29/18

**Instructions:**

SDS REQUIRED / DATE OF MFG: 12/2017  
SPEC# 299-947-100, REV P, T-II, CL-2 / Shelf life: 12 mo. from date of MFG store @ 40°F or below or 3 mo. @ 40-85°F or 2 mo. @ 85-100°F  
SPEC# 299-947-359, REV A, T-I / Shelf life: 12 mo. from DOR, store @ 40°F or below or 9 mo. @ 60-80°F or 6 mo. @ 80-100°F  
EXPIRATION DATE: (299-947-100): 12/2018 OR 03/2018 OR 02/2018  
EXPIRATION DATE: (299-947-359): 01/2019 OR 10/2018 OR 07/2018

**Magnolia Advanced Materials, Inc.**

Signed:

Greg Bunn  
Technical Director

We certify that the above listed material meets the sales specifications as outlined by the manufacturing procedures of Magnolia Advanced Materials, Inc. and the above listed specification.

The materials process and formulation(s) have not been changed in any way from the original qualified material(s) without prior approval.

Unless otherwise indicated, the country of origin is the USA.

Shelf life certified and applicable on unopened, properly stored containers.



A BOEING COMPANY

# Commercial Invoice

AVIALL SERVICES INC  
2750 REGENT BLVD  
DFW AIRPORT TX 75261  
USA

Tracking Number	Government Transaction Number
428526961471	NOEEI FTR 30.36
Ship From	Delivery Number
AVIALL CENTRAL WAREHOUSE 2750 REGENT BLVD. DFW AIRPORT TX 75261 USA	8005527143
Ship Date	Commercial Invoice Number
21 February, 2018	9306972181
Incoterms	
EXW Shipping Point	

Sold To  DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003952	Ultimate Consignee  DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003952	Ship To  DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003952	Freight Forwarder  FEDEX FEDEX NATIONAL LTL INC PO BOX 94515 PALATINE IL 60094-4515	400010
Tax Number: 20-4734803							

Comments:

ATTN Freight Forwarder: Email a copy of Master Air Way Bill (MAWB) to [aesaudits@aviall.com](mailto:aesaudits@aviall.com)

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Value	Extended Value
					USD	USD
10	MAGN0B0ND6398 - ADHESIVE: EPOXY,A/B,112ML Export Tariff: 3506100000 Export Classification: EAR99 Authorization: NLRAT_JAN_2020 Sales Order: 1003841497 PO: PO39065	US	12	CQ	66.44	797.28



# Commercial Invoice

Delivery Number 8005527143	Commercial Invoice Number 9306972181
-------------------------------	---

Item	Part Number & Description	Country of Origin	Quantity	UOM	Unit Price USD	Extended Value USD

Gross Value	797.28
Add on Charges	
Tax Value	
Freight Charges	
Total Net Value	797.28

**FOR CUSTOMS PURPOSES ONLY  
NOT A BILLING INVOICE**

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end user(s) here in identified. They may not be resold, transferred, or otherwise disposed of, to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. government or as otherwise authorized by U.S. law and regulations.



A BOEING COMPANY

# Commercial Invoice

AVIALL SERVICES INC  
2750 REGENT BLVD  
DFW AIRPORT TX 75261  
USA

Tracking Number	Delivery Number
428526961471	8005527143
Ship From	Commercial Invoice Number
AVIALL CENTRAL WAREHOUSE 2750 REGENT BLVD. DFW AIRPORT TX 75261 USA	9306972181
Ship Date	21 February, 2018
Incoterms	EXW Shipping Point

Sold To  DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003952	Ultimate Consignee  DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003952	Ship To  DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY ON K6A 1K7 CANADA	10003952	Freight Forwarder  FEDEX FEDEX NATIONAL LTL INC PO BOX 94515 PALATINE IL 60094-4515	400010
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## SHIPPER'S DECLARATION FOR DANGEROUS GOODS

**Shipper** AVIALL SERVICES INC  
2750 REGENT BLVD  
DFW AIRPORT, TX, 75261  
U.S.A.

Air Waybill No.

Page 1 of 1 Pages

Shipper's Reference Number

8005527143

(optional)

**Consignee** DART AEROSPACE LTD  
1270 ABERDEEN STREET  
HAWKESBURY, ON, K6A 1K7  
Canada

Created using  
International Air  
regulations and  
FedEx carrier  
variations.

**LABELMASTER<sup>®</sup>**  
SOFTWARE

Two completed and signed copies of this declaration  
must be handed to the operator.

**WARNING**

Failure to comply in all respects with the applicable  
Dangerous Goods Regulations may be in breach of the  
applicable law, subject to legal penalties.

**TRANSPORT DETAILS**

This shipment is within the  
limitations prescribed for:  
(delete non-applicable)

PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT XXXXXXX
------------------------------------	------------------------------

Airport of Departure:

Airport of Destination:

Shipment type: (delete non-applicable)

NON-RADIOACTIVE

X RADIATIVE XXXXX

**NATURE AND QUANTITY OF DANGEROUS GOODS**

## Dangerous Goods Identification

UN or ID No.	Proper Shipping Name	Class or Division (Subsidiary Risk)	Pack- ing Group	Quantity and type of packing	Packing Inst.	Authorization
UN3267	Corrosive liquid, basic, organic, n.o.s. (aminoethylpiperazine solution)	8	III	1 Fibreboard Box x 2.832 L	852	

Additional Handling Information Emergency Contact Name: CCN2132 . Emergency Contact Phone: 1-800-424-9300 // INTL +1-703-527-3887

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. I declare that all of the applicable air transport requirements have been met.

Name/Title of signatory

Jimmy Hartfield

Hazardous Shipper

Place and Date DFW Airport, 75261 2/21/2018

Signature

(see warning above)

## SHIPPER'S DECLARATION FOR DANGEROUS GOODS

**Shipper** AVIALL SERVICES INC  
2750 REGENT BLVD  
DFW AIRPORT, TX, 75261  
U.S.A.

Air Waybill No.

Page 1 of 1 Pages

Shipper's Reference Number  
(optional)

8005527143

**Consignee** DART AEROSPACE LTD  
1270 ABERDEEN STREET  
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(delete non-applicable)

PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT XXXXXX
------------------------------------	-----------------------------

Airport of Departure:

Airport of Destination:

Shipment type: (delete non-applicable)

NON-RADIOACTIVE

X RADIATIVE XXXX

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2750 REGENT BLVD  
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U.S.A.

Air Waybill No.

Page 1 of 1 Pages

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(optional)

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(delete non-applicable)

PASSENGER AND CARGO AIRCRAFT	CARGO AIRCRAFT XXXXXX
------------------------------------	-----------------------------

Airport of Departure:

Airport of Destination:

Shipment type: (delete non-applicable)

NON-RADIOACTIVE

XXXXXXXXXXXX

**NATURE AND QUANTITY OF DANGEROUS GOODS**

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(delete non-applicable)

PASSENGER	CARGO XXXX
AND CARGO	AIRCRAFT
AIRCRAFT	XXXXXXX

Airport of Departure:

Airport of Destination:

Shipment type: (delete non-applicable)

NON-RADIOACTIVE

X RADIATIVE XXXXX

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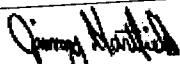
Name/Title of signatory

Jimmy Hartfield

Hazardous Shipper

Place and Date DFW Airport, 75261 2/21/2018

Signature  
(see warning above)



**Avoid breathing dust/fume/gas/mist/vapors/spray  
Contaminated work clothing must not be allowed out of the workplace  
Wear protective gloves**

**IF ON SKIN:** Wash with plenty of water and soap  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse

#### **Precautionary Statements - Disposal**

Disposal: Dispose of contents/container to an approved waste disposal plant

#### **Hazards not otherwise classified (HNOC)**

Not applicable

## **Other Information**

**Causes mild skin irritation** Harmful to aquatic life with long lasting effects Harmful to aquatic life

55.2 % of the mixture consists of ingredient(s) of unknown toxicity

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

### Substance

Not applicable

### Mixture

## Synonyms

<b>Chemical Name</b>	<b>CAS-No</b>	<b>Weight %</b>	<b>Trade secret</b>
Trade secret	Proprietary	30-60	*
Aluminum	7429-90-5	25-50	*
Epoxy resin	Proprietary	5-15	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### **4. FIRST AID MEASURES**

#### Description of first aid measures

**General advice** Remove from exposure, lie down. If symptoms persist, call a physician. Do not get in eyes, on skin, or on clothing. **MAY CAUSE ALLERGIC SKIN REACTION.**

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.

**Skin contact** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

**Inhalation** Remove from exposure, lie down. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical advice/attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## **Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## **6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

**Other Information** Ventilate the area.

**Environmental precautions**

**Environmental precautions** Do not allow material to contaminate ground water system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## **7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place.

**Incompatible Products** None known based on information supplied.

## **8. Exposure Controls/Personal Protection**

**Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum 7429-90-5	TWA: 1 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No information available.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Wash hands before breaks and after work.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Paste/Gel	<b>Odor</b> <b>Odor threshold</b>	Slight ethereal No information available	
<b>Appearance</b>	Gray			
<b>Color</b>	No information available			
<b>Property</b>	<b>Values</b>	<b>Remarks/ • Method</b>		
PH	No information available			
Melting point / freezing point	No information available			
Boiling Point/Range	107.3 °C 225 °F			
Flash point	> 93.4 °C / > 200 °F			
Evaporation Rate	No information available			
Flammability (solid, gas)	No information available			
Flammability Limit in Air				
Upper Flammability Limit	No information available			
Lower Flammability Limit	No information available			
Vapor pressure	No information available			
Vapor density	No information available			
Relative Density	1.25			
Water solubility	Negligible			
Solubility in other solvents	No information available			
Partition coefficient: n-octanol/water	No information available			
Autolgnition temperature	No information available			
Decomposition temperature	No information available			
Kinematic viscosity	No information available			
Dynamic viscosity	No information available			
Explosive properties	No information available			
Oxidizing properties	No information available			

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content</b>	Negligible
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

## **10. STABILITY AND REACTIVITY**

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of hazardous reactions**

None under normal processing.

Hazardous polymerization	Hazardous polymerization does not occur.
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**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

None known based on information supplied.

**Hazardous decomposition products**

Carbon oxides. Phenols. Aromatic hydrocarbons.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

Product Information	The product has not been tested
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Inhalation	There is no data available for this product.
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Eye contact	There is no data available for this product.
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Skin contact	There is no data available for this product.
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Ingestion	There is no data available for this product.
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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Epoxy resin	= 11400 mg/kg ( Rat )	-	-

**Information on toxicological effects**

Symptoms	No information available.
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**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Sensitization	No information available.
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MUTAGENIC EFFECTS	No information available.
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Carcinogenicity	No information available.
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Reproductive toxicity	No information available.
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STOT - single exposure	No information available.
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STOT - repeated exposure	No information available.
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Aspiration hazard	No information available.
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**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	63,840.00 mg/kg
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**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life with long lasting effects

46.4 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

Other adverse effects No information available

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Waste Disposal Method** Dispose of in accordance with local regulations.

**Contaminated packaging** Do not reuse container.

Chemical Name	California Hazardous Waste Status
Aluminum 7429-90-5	Ignitable (powder)

### 14. TRANSPORT INFORMATION

DOT Not regulated

ICAO

<b>UN-No</b>	3082
<b>Hazard Class</b>	9
<b>Packing group</b>	III

IATA

<b>UN-No</b>	3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)
<b>Hazard Class</b>	9
<b>Packing group</b>	III

IMDG/IMO

<b>UN-No</b>	3082
<b>Proper shipping name</b>	Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)
<b>Hazard Class</b>	9
<b>Packing group</b>	III
<b>EmS No.</b>	F-A, S-F

RID

<b>UN-No</b>	3082
<b>Hazard Class</b>	9
<b>Packing group</b>	III
<b>Classification code</b>	M6

ADR

<b>UN-No</b>	3082
<b>Hazard Class</b>	9
<b>Packing group</b>	III
<b>Classification code</b>	M6

### 15. REGULATORY INFORMATION

International Inventories

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Complies
<b>KECL</b>	Complies

PICCS	Does not comply
AICS	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

#### Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### U.S. State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Aluminum 7429-90-5	X	X	X

#### U.S. EPA Label Information

EPA Pesticide registration number Not applicable

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA      Health hazard 2      Flammability 1      Instability 0      Physical and Chemical Hazards -

HMIS      Health hazard 2      Flammability 1      Physical hazards 0      Personal precautions B

Prepared by      Magnolia Advanced Materials, Inc.  
4360 NE Expressway.

Atlanta, GA 30340

Issuing Date      08-Oct-2015

Revision date      06-Nov-2015

Revision note

No information available

Disclaimer

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The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS



# Safety Data Sheet

Issuing Date 06-Nov-2015

Revision date 06-Nov-2015

Revision Number 3

## 1. IDENTIFICATION

**Product identifier**

Product name Magnobond 6398-B

**Other means of identification**

Product Code(s) 6398-B

UN-No 3267

Synonyms Magnolia 6398-B

**Recommended use of the chemical and restrictions on use**

Recommended Use Amine curing agent.

Uses advised against No information available

**Details of the supplier of the safety data sheet**

Manufacturer Address

Magnolia Advanced Materials

4360 NE Expressway

Atlanta, GA 30344

**Emergency telephone number**

Company Phone Number (770) 451-2777

Emergency telephone number INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

Account 79439

## 2. HAZARDS IDENTIFICATION

**Classification**

**OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1B

**Label elements**

**Emergency Overview**

**DANGER**

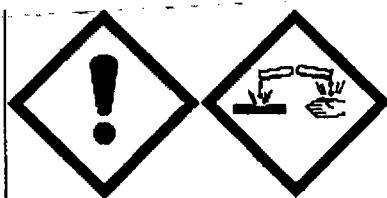
**Hazard statements**

HARMFUL IF SWALLOWED

Harmful in contact with skin

Causes severe skin burns and eye damage

May cause an allergic skin reaction



Appearance Off-white to amber

Physical state Paste/Gel

Odor Amine

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Do not eat, drink or smoke when using this product  
 Do not breathe dusts or mists  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Contaminated work clothing must not be allowed out of the workplace

**Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor  
 Specific treatment (see .? on this label)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 Immediately call a POISON CENTER or doctor  
 Call a POISON CENTER or doctor if you feel unwell  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 Immediately call a POISON CENTER or doctor  
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell  
 Rinse mouth  
 Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**Other Information**

Harmful to aquatic life with long lasting effects Harmful to aquatic life

Unknown acute toxicity

0.002 % of the mixture consists of ingredient(s) of unknown toxicity

**3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

Not applicable

**Mixture****Synonyms**

Magnolia 6398-B.

**Formula**

Not Applicable-Mixture

Chemical Name	CAS-No	Weight %	Trade secret
Amine curing agent	Proprietary	30-60	*
Amine curing agent	Proprietary	15-40	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

**4. FIRST AID MEASURES****Description of first aid measures**

<b>General advice</b>	Remove from exposure, lie down. If symptoms persist, call a physician. Do not get in eyes, on skin, or on clothing. <b>MAY CAUSE ALLERGIC SKIN REACTION.</b>
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Remove from exposure, lie down. If symptoms persist, call a physician.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Get medical advice/attention.
<b>Self-protection of the first aider</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms/Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

Water spray, carbon dioxide (CO<sub>2</sub>), dry chemical, alcohol-resistant foam.

**Specific hazards arising from the chemical**

No information available.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with skin, eyes and clothing. Wash thoroughly after handling.

**Other Information** Ventilate the area.

**Environmental precautions**

**Environmental precautions** Do not allow material to contaminate ground water system. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

## **7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on safe handling** Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. In case of insufficient ventilation, wear suitable respiratory equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep away from open flames, hot surfaces and sources of ignition. Keep tightly closed in a dry and cool place.

**Incompatible Products** None known based on information supplied.

## **8. Exposure Controls/Personal Protection**

**Control parameters**

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Safety glasses with side-shields.

**Skin and body protection** Protective gloves.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**General Hygiene Considerations** Wash hands before breaks and after work.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Information on basic physical and chemical properties**

<b>Physical state</b>	Paste/Gel	<b>Odor</b> <b>Odor threshold</b>	<b>Amine</b> No information available	
<b>Appearance</b>	Off-white to amber			
<b>Color</b>	No information available			
<b>Property</b>	<b>Values</b>	<b>Remarks/ • Method</b>		
<b>pH</b>	No information available			
<b>Melting point / freezing point</b>	No information available			
<b>Boiling Point/Range</b>	107.3 °C 225 °F			
<b>Flash point</b>	> 93.4 °C / > 200 °F			
<b>Evaporation Rate</b>	No information available			
<b>Flammability (solid, gas)</b>	No information available			
<b>Flammability Limit in Air</b>				
Upper Flammability Limit	No information available			
Lower Flammability Limit	No information available			
<b>Vapor pressure</b>	No information available			
<b>Vapor density</b>	No information available			
<b>Relative Density</b>	1.0			

<b>Water solubility</b>	Negligible
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient: n-octanol/water</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Dynamic viscosity</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available

**Other Information**

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content</b>	Negligible
<b>Density</b>	No information available
<b>Bulk density</b>	No information available

**10. STABILITY AND REACTIVITY****Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions. Hygroscopic.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

None known based on information supplied.

**Hazardous decomposition products**

Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide. Ammonia. Hazardous decomposition products formed under fire conditions.

**11. TOXICOLOGICAL INFORMATION****Information on likely routes of exposure**

**Product Information** The product has not been tested

**Inhalation** There is no data available for this product.

**Eye contact** There is no data available for this product.

**Skin contact** There is no data available for this product.

**Ingestion** There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Amine curing agent	= 2140 µL/kg ( Rat )	= 880 µL/kg ( Rabbit )	-
Amine curing agent	= 4290 µL/kg ( Rat ) = 4290 mg/kg ( Rat )	= 2500 µL/kg ( Rabbit )	-

**Information on toxicological effects**

**Symptoms** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Sensitization	No information available.
MUTAGENIC EFFECTS	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

**Numerical measures of toxicity - Product Information**

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	944.00 mg/kg
ATEmix (dermal)	1,490.00 mg/kg

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life with long lasting effects

54.168 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to Algae	Toxicity to Fish	Daphnia Magna (Water Flea)
Amine curing agent	495: 72 h Pseudokirchneriella subcapitata mg/L EC50	1000: 96 h Poecilia reticulata mg/L LC50 LC50 semi-static 100: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 1950 - 2460: 96 h Pimephales promelas mg/L LC50 flow-through	= 32 mg/L EC50 32: 48 h Daphnia magna mg/L EC50

**Persistence and degradability**

No information available.

**Bioaccumulation/Accumulation**

No information available.

Chemical Name	Log Pow
Amine curing agent	-1.48

**Other adverse effects** No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Waste Disposal Method** Dispose of contents/container in accordance with local regulation.

**Contaminated packaging** Do not reuse container.

**14. TRANSPORT INFORMATION****DOT**

UN-No 3267  
Hazard Class 8 (Corrosive)  
Packing group III

**ICAO**

**UN-No** 3267  
**Hazard Class** 8 (Corrosive)  
**Packing group** III

**IATA**

**UN-No** 3267  
**Proper shipping name** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINOETHYLPIPERAZINE SOLUTION)  
**Hazard Class** 8 (Corrosive)  
**Packing group** III  
**Description** A3

**IMDG/IMO**

**UN-No** 3267  
**Proper shipping name** CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (AMINOETHYLPIPERAZINE SOLUTION)  
**Hazard Class** 8 (Corrosive)  
**Packing group** III  
**EmS No.** F-A, S-B

**RID**

**UN-No** 3267  
**Hazard Class** 8 (Corrosive)  
**Packing group** III  
**Classification code** C7

**ADR**

**UN-No** 3267  
**Hazard Class** 8  
**Packing group** III  
**Classification code** C7  
**ADR/RID-Labels** 8

**15. REGULATORY INFORMATION****International Inventories**

<b>TSCA</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Complies
<b>KECL</b>	Does not comply
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

**Acute health hazard**

No

Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**U.S. State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Amine curing agent	X	X	X

**U.S. EPA Label Information**

EPA Pesticide registration number Not applicable

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<u>NFPA</u>	Health hazard 3	Flammability 1	Instability 0	Physical and Chemical Hazards -
<u>HMIS</u>	Health hazard 3	Flammability 1	Physical hazards 0	Personal precautions B

**Prepared by** Magnolia Advanced Materials, Inc.  
4360 NE Expressway.

Atlanta, GA 30340

**Issuing Date** 06-Nov-2015  
**Revision date** 06-Nov-2015

**Revision note**

No information available

**Disclaimer**

The Information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of MSDS